

1. Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A resonant power LED control which comprises a single resonant converter for the simultaneous, independent brightness and color control of two LEDs (41, 42) or two groups of LEDs, ~~which~~wherein the converter is formed ~~substantially from~~ comprises a half or full bridge DC/AC converter (2) with a control unit (21), a resonant capacitor, and a transformer (3).

2. (Cancelled).

3. (Currently Amended) A resonant power LED control as claimed in claim [[2]]16, ~~characterized in that~~wherein ~~the~~ an input signal representing the input value is achieved by means of an optical coupling, via which coupling the measured output currents of the light emitted by the LEDs ~~diodes~~ (41, 42) are fed back to the DC/AC converter (2).

4. (Currently Amended) A resonant power LED control as claimed in claim 1, ~~characterized in that~~wherein several LEDs are joined together into groups of arrays connected in series each time.

5. (Currently Amended) A resonant power LED control as claimed in claim 1, ~~characterized in that~~wherein ~~the~~ a voltage supply of the LEDs (41, 42) takes place via ~~the~~ a secondary side of the transformer (3).

6. (Currently Amended) A resonant power LED control as claimed in claim 1,
~~characterized in thatwherein~~ the transformer (3) has a secondary winding to which the LEDs (41, 42) are connected in antiparallel.
7. (Currently Amended) A resonant power LED control as claimed in claim 1,
~~characterized in thatwherein~~ the transformer (3) has two secondary windings to which the LEDs (41, 42) are connected such that they are supplied with current in succession.
8. (Currently Amended) A resonant power LED control as claimed in claim 7,
~~characterized in thatwherein~~ the transformer (3) has a central tap (33) at the secondary side, to which tap the common anode or cathode of the LEDs (41, 42) is connected.
9. (Currently Amended) A resonant power LED control as claimed in claim 8,
~~characterized in thatwherein~~ a further LED (43) is connected as a main light source between the central tap (33) and the common cathode or anode of the LEDs (41, 42) ~~that wherein the LEDs serve as subsidiary light sources.~~
10. (Currently Amended) A resonant power LED control as claimed in claim 9,
~~characterized in thatwherein~~ a switching diode is used instead of one of the subsidiary light source LEDs (41, 42).
11. (Currently Amended) A resonant power LED control as claimed in claim 6,
~~characterized in thatwherein~~ the color of the LEDs (41) comprises is white and of the LEDs (42) amber/orange.
12. (Currently Amended) A resonant power LED control as claimed in claim 9,
~~characterized in thatwherein~~ the color of the subsidiary light source LEDs (41) is greencomprises green, of the subsidiary light source LEDs (42) blue/cyan, and the color of the main light source ~~further LED~~ LEDs (43) comprises red.

13. (Currently Amended) A resonant power LED control as claimed in claim 10, characterized in that wherein the color of the subsidiary light source LEDs (41, 42) is comprises cyan/blue and the color of the main light source LEDs (43) further LED comprises amber/orange.

14. (Cancelled).

15. (New) A resonant power LED control, comprising:

a single resonant converter operative to provide simultaneous, independent brightness and color control of two LEDs or two groups of LEDs, which are connected to filter capacitors, the converter comprising: a half bridge DC/AC converter or full bridge DC/AC converter with a control unit, a resonant capacitor, and a transformer.

16. (New) A resonant power LED control, comprising:

a single resonant converter operative to provide simultaneous, independent brightness and color control of two LEDs or two groups of LEDs, the converter comprising: a half bridge DC/AC converter or full bridge DC/AC converter with a control unit, a resonant capacitor, and a transformer, wherein the light emitted by the diodes forms an input value for the control unit.